

**EAST Search History**

| Ref # | Hits    | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|---------|---|--|------------------|---------|---------------------|
| S1    | 8       | ("20030021389"<br>"20020041693" "5828756"<br>"20020136328").pn.         | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/29<br>23:48 |
| S2    | 0       | ("2005/0216258").URPN.  | USPAT  | OR               | ON      | 2008/09/29<br>23:52 |
| S5    | 2451    | S3 and S4   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:06 |
| S4    | 9035    | covariance with matrix  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:06 |
| S3    | 1081337 | (audio sound speech<br>source) with (detect\$3 locat<br>\$3 direct\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:06 |
| S7    | 2148    | S6 and S4   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:10 |
| S6    | 1001361 | (audio sound speech<br>source) with (position\$3<br>locat\$3 direct\$3) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:10 |
| S8    | 4359    | microphone with array   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:11 |
| S10   | 25      | S8 and S9   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:12 |
| S9    | 167     | S6 same S4  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | ON      | 2008/09/30<br>00:12 |
| S12   | 0       | (10/836207).APP.  | USPAT; USOCR   | OR               | ON      | 2008/09/30<br>00:22 |
| S11   | 0       | (10/836207).APP.  | USPAT; USOCR   | OR               | ON      | 2008/09/30<br>00:22 |
| S13   | 0       | ("2004/0220800").URPN.  | USPAT  | OR               | ON      | 2008/09/30<br>00:23 |

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|-----|---------|---|--|----|----|---------------------|
| S14 | 17      | S4 and 704/205.ccls.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>10:35 |
| S15 | 7       | ("5574824"   "5757937"  <br>"6549586"   "6647367"  <br>"6839666").PN. OR<br>("7158933").URPN. | US-PGPUB;<br>USPAT; USOCR                            | OR | ON | 2008/09/30<br>10:39 |
| L1  | 2       | "7158933".pn.   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>15:55 |
| L4  | 1001361 | (audio sound speech<br>source) with (position\$3<br>locat\$3 direct\$3)                       | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>16:43 |
| L3  | 24318   | adaptive with filter  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>16:43 |
| L2  | 9035    | covariance with matrix  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>16:43 |
| L5  | 193     | 2 and 3 and 4   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>16:44 |
| L6  | 1       | (10/231613).APP.  | USPAT; USOCR   | OR | ON | 2008/09/30<br>16:47 |
| L9  | 37      | 4 and 8   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:10 |
| L8  | 100     | 2 and 7   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:10 |
| L7  | 3734    | filter same coefficient same<br>weight  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:10 |
| L13 | 22      | 4 and 12  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:15 |
| L12 | 117     | 10 and 11   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:15 |

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| L11 | 71329  | filter same coefficient                       | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:15 |
| L10 | 865    | 2 same weight                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:15 |
| L14 | 94     | 10 same diagonal                              | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:19 |
| L16 | 6      | 2 same 15                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:55 |
| L15 | 108704 | adjust\$4 with (volume<br>(sound adj2 level)) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:55 |
| L19 | 99     | 18 and 11                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:59 |
| L18 | 554    | 2 and 17                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:59 |
| L17 | 260439 | volume with control\$4                        | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | ON | 2008/09/30<br>18:59 |

9/30/08 10:30:34 PM

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